

Form PTO-1449
(Rev. 8-83)Department of Commerce
Patent and Trademark Office

Atty Docket 0756-875

Serial No. 08/065,757

INFORMATION DISCLOSURE STATEMENT

Applicants: Shunpei YAMAZAKI

Filing Date: May 24, 1993

Group Art Unit: 1109

U.S. PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date (if appropriate)
Q	4,797,510	01/10/1989	Mihelich			
Q	4,826,808	05/02/1989	Yurek et al.			
Q	4,900,715	02/13/1990	Cooper et al.			
Q	4,916,116	04/10/1990	Yamazaki			
Q	4,959,345	09/25/1990	Yamazaki			
Q	4,971,667	11/20/1990	Yamazaki et al.			

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes No
Q	63-225531	09/20/1988	JP			Eng Abst
	63-225572	09/20/1988	JP			Eng Abst
	63-230563	09/27/1988	JP			Eng Abst
	63-233063	09/28/1988	JP			Eng Abst
	63-233064	09/28/1988	JP			Eng Abst
	63-236712	10/03/1988	JP			Eng Abst

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Examiner Initial	
Q	Er-Rakho et al., "A Series of Oxygen-Defect Perovskites Containing Cu ^{II} and Cu ^{III} the Oxides La _{3-x} Ln _x Ba ₃ [Cu _{5-2y} Cu _{1+2y} O _{4+y}]", pp. 151-156, 1981, Journal of Solid State Chemistry 37
	LePage et al., "Room-Temperature Structure of the 90K Bulk Superconductor YBa ₂ Cu ₃ O _{8-x} ", pp. 7245-7248, May 1, 1987, Physical Review B Vol. 35, No. 13
Q	Engler et al., "Superconductivity Above Liquid Nitrogen Temperature: Preparation and Properties of a Family of Perovskite-Based Superconductors", pp. 2848-2849, 1987, J. Am. Chem. Soc., 109
Q	Shaplygin et al., "Preparation and Properties of the Compounds Ln ₂ CuO ₄ (Ln=La, Pr, Nd, Sm, Eu, Gd) and Some of their Solid Solutions", pp. 820-824, 1979, Russian Journal of Inorganic Chemistry, 24(6)
Q	Politts et al., "Superconductivity at 40K in ...", pp. 141-144, 1987, Condensed Matter, 66
	Chemical Abstracts, CA 109:161912, for BR 8,702,654, (11-87)
Q	Engler et al., "Processing, Structure, and High-Temperature Superconductivity", pp. 266-271, 1987, Chemistry of High-Temperature Superconductors, ACS Symposium Series, 351
Q	Tarascon et al., "Oxygen and Rare-Earth Doping of the 90-K Superconducting Perovskite YBa ₂ Cu ₃ O _{7-x} ", pp. 226-234, July 1, 1987, Physical Review B, 36(1)
Q	Hor et al., "High-Pressure Study of the New Y-Ba-Cu-O Superconducting Compound System", pp. 911-912, March 2, 1987, Physical Review Letters, Vol. 58, No. 9

Examiner

Date Considered

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08/29/2001

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③ Jorgansen et al., "Lattice Instability and High-Tc Superconductivity in La...", pp. 1024-1027, March 9, 1987, Physical Review Letters, Vol. 58, No. 10

② Mattheiss, "Band properties and Superconductivity in ...", pp. 1028-1030, March 9, 1987, Physical Review Letters, Vol. 58, No. 10

① Chu et al., "Evidence for Superconductivity Above 40k in the La-Ba-Cu-O Compound System", pp. 405-407, January 26, 1987, Physical Review Letters, Vol. 58, No. 4

② Chu et al., "Superconductivity at 52.5 k in the Lanthanum-Barium-Copper-Oxide System", pp. 567-569, January 30, 1987, Reports

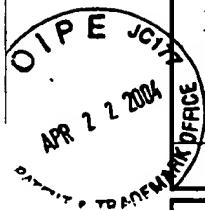
② Bednorz et al., "Possible High Tc Superconductivity in the Baa-La-Cu-O System", pp. 189-193, 1986, Condensed Matter, 64

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3/21/05

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Substitute for form 1449A/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	08/065,757
				Filing Date	May 24, 1993
				First Named Inventor	Shunpei YAMAZAKI
				Art Unit	1755
				Examiner Name	Carol Koslow
Sheet	3	of	3	Attorney Docket Number	740756-875

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	U.S. Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
C		US-6,506,709 B1	01/14/2003	Yamazaki	
		US-			
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		US-			

FOREIGN PATENT DOCUMENTS						
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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
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b		Extended Abstracts of Annual Scholar Meeting (The 36 th Spring Meeting, 1989) 2A-E-7/pp. 101	
C		Extended Abstracts of Annual Scholar Meeting (The 36 th Spring Meeting, 1989) 2A-E-8/pp. 101	
		Shunpei Yamazaki "Official Action for Serial No. 07/859,254 dated November 5, 2003"	
Examiner Signature	Q		Date Considered 3/21/05

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		US-			
		US-			

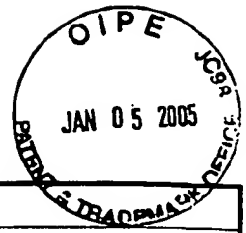
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e		AU-B-12783/88	09-15-88	BEYERS, et al.		
		AU-B-10014/88	08-11-88	VAN DOVER et al.		

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C		FISHER, Superconductor Mysteries Unravel as Developments Proceed, CERAMIC BULLETIN, 1988, pp. 725-733, Vol. 67, No. 4.	
O		Beno et al., Structure of the single-phase high-temperature superconductor YBa ₂ Cu ₃ O _{7-δ} , Appl. Phys. Lett., 6 July 1987, pp. 57-59, Vol. 51, No. 1.	
C		HATANO et al., Superconducting and Transport Properties of B-Y-Cu-O Compounds-Orthorhombic and Tetragonal Phases, Japanese Journal of Applied Phys., May 1987, pp. L721-L723, Vol. 26, No. 5.	
B		RAO et al., High T _c Superconductivity in Quasi Two-Dimensional Copper Oxides of K ₂ NiF ₄ Structure, Current Science, January 20, 1987, pp. 47-49, Vol. 56, No. 2.	
Q		NAKAMURA et al., High T _c Superconductivity Based on the Square Planar [CuO ₄] _∞ -Bonding System in K ₂ NiF ₄ -Type (A,A*) ₂ CuO ₄ and Oxygen-Deficient Perovskite (Ba ₂ A)Cu ₃ O ₇ , Japanese Journal of Applied Physics, May 1987, pp. L678-L681, Vol. 26, No. 5.	

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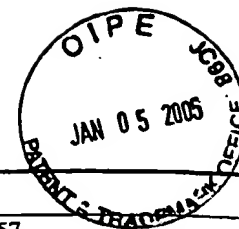
Substitute for form 1449B/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	08/065,757	
			Filing Date	May 24, 1993	
			First Named Inventor	Shunpei YAMZAKI	
			Group Art Unit	1755	
			Examiner Name	Carol M. Koslow	
Sheet	2	Of	84	Attorney Docket Number	740756-875

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Q		KISHIO et al., Superconductivity Achieved at Over Liquid Nitrogen Temperature by (Mixed Rare Earths)-Ba-Cu Oxides, Japanese Journal of Applied Physics, May 1987, pp. L694-L696, Vol. 26, No. 5.	
Q		OOTA et al., Electrical, Magnetic and Superconducting Properties of the High-T _c Superconductor Er _{1-x} Yb _x Ba ₂ Cu ₃ O _{7-δ} , Japanese Journal of Applied Physics, December 1987, pp. L2091-L2093, No. 12.	
Q		ISHIDA, Compositional Variation of High T _c in Yb _x Er _{1-x} Ba ₂ Cu ₃ O _{6+y} System, Japanese Journal of Applied Physics, August 1987, pp. L1294-L1295, Vol. 26, No. 8.	
Q		IHARA et al., Possibility of Superconductivity at 65°C in Sr-Ba-Y-Cu-O System, Japanese Journal of Applied Physics, August 1987, pp. L1413-L1415, Vol. 26, No. 8.	
Q		TAKAGI et al., High-T _c Superconductivity of La-Ba-Cu Oxides. II.-Specification of the Superconducting Phase, Japanese Journal of Applied Physics, February 1987, pp. L123-L124, Vol. 26, No. 2.	
Q		OHSHIMA et al., Superconducting and Structural Properties of the New Ba _{1-x} Ln _x CuO _{3-y} Compound System (Ln=La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho, Er and Yb), Japanese Journal of Applied Physics, May 1987, pp. L815-L817, Vol. 26, No. 5.	
Q		LIANG et al., The Effect of Substitution of La for Ba and Ce for Y on the T _c of Superconducting Ba ₂ YC ₃ O ₇ , Japanese Journal of Applied Physics, July 1987, pp. L1150-L1152, Vol. 26, No. 7.	
Q		TAMEGAI et al., Structures and Upper Critical Fields of High T _c Superconductors (RE)Ba ₂ Cu ₃ O _x , Japanese Journal of Applied Physics, August 1987, pp. L1304-L1306, Vol. 26, No. 8.	

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B		SODERHOLM et al., Incorporation of Pr in YBa ₂ Cu ₃ O _{7-δ} ; electronic effects on superconductivity, Nature, 13 August 1987, pp. 604-605, Vol. 328.	
B		OKAI et al., Preparation and Physical Properties of PrBa ₂ Cu ₃ O _y , Japanese Journal of Applied Physics, October 1987, pp. L1648-L1650, Vol. 26, No. 10.	
B		JAYARAM et al., High Temperature Superconductivity in Y-Ba-Cu-O and Y-Ba-Sr-Cu-O Systems, Solid State Communications, 1987, pp. 713-716, Vol. 63, No. 8.	
B		ONO et al., Superconductivity in Ba _{2(1-x)} Sr _{2x} YCu ₃ O _{7-y} , Japanese Journal of Applied Physics, October 1987, pp. L1687-L1689, Vol. 26, No. 10.	

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		US-6,506,789 B1	01/14/2003	Yamazaki	
		US-			
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		Extended Abstracts of Annual Scholar Meeting (The 36 th Spring Meeting, 1989) 2A-E-7/pp. 101	
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Sheet 1 of 1

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First Named Inventor Shunpei YAMAZAKI

Art Unit 1755

Examiner Name Carol M. Koslow

Attorney Docket Number 740756-875

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B		YOSHIDA, Characteristics in the Growth of the YBa ₂ Cu ₂ O _x and YBaSrCu ₃ O _x Crystalline Films, Japanese Journal of Applied Physics, July 1988, pp. L1248-L1250, Vol. 27, No. 7.	
B		HIRABAYASHI et al., Structure and Superconductivity in a New Type of Oxygen Deficient Perovskites Y ₁ Ba ₂ Cu ₃ O ₇ , Japanese Journal of Applied Physics, April 1987, pp. L454-L455, Vol. 26, No. 4.	

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